

## CLAIMS

WE CLAIM:

1. A method of detecting Graves' disease or rheumatoid arthritis in a patient comprising  
obtaining a biological sample from the patient and  
5 measuring the binding of disease specific IgG with IGF-1 relative to a control  
wherein an elevated level of IgG IGF-1 binding relative to the control indicates Graves'  
disease or rheumatoid arthritis.

2. The method of claim 1 wherein the measuring step is a determination of T-cell  
activation.

3. The method of claim 2 wherein the determination measures a chemical marker  
expressed by activated T cells.

4. The method of claim 3 wherein the marker is RANTES.

5. The method of claim 3 wherein the marker is IC-16.

6. The method of claim 2 wherein the determination is T-cell migration.

7. The method of claim 1 wherein the patient is human.

8. The method of claim 1 wherein the biological sample is selected from a group  
consisting of:

blood,

urine,

synovial fluid,

ascites,

tissue.